

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Martha Allman

GENERAL INFORMATION:

Name:	Berea College
Address:	Rustic Road, CPO 2337, Berea, Kentucky
Date application received:	05-23-2005
SIC/Source description:	8221
I.D. #:	21-151-00006
Application log number:	APE20050004
Permit number:	V-03-005 R2

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
<input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Increase in PTE as a Result of this Revision (tons/year)	Actual Emissions (tons/year)	Total Potential to Emit (tons/year)
PM	2.7	4.1	17.0
SO2	8.0	8.1	1080.0
NOx	28.4	47.2	73.0
CO	17.8	26.4	225.0
VOC	1.2	1.6	20.0
Lead	0.0	.0003	.03
HAPs	0.0	0.0	9.0

Note: Total Potential Emissions includes the two coal-fired units even though they are no longer operating.

SOURCE PROCESS DESCRIPTION:

Berea College, located in Madison County, Kentucky has applied for a second minor modification to its Title V permit, V-03-005. Berea College proposes to add six boilers, ranging in size from 0.75 mmBtu/hour to 18 mmBtu/hour. These boilers will provide hot water and steam for the campus heating system and are part of a long-range plan to replace the coal-fired boilers.

The first permit revision was issued on February 10, 2005 for the construction of a 50 mmBtu/hr natural gas boiler, Emission Unit 5, to replace two coal-fired units, Emission Units 1 and 2. Emission Unit 2 has been the subject of previous enforcement actions. Emission Unit 1 has not operated since 2001 and would require extensive repairs to become operational. Per the terms of an Agreed Order, DAQ-04027, filed on June 6, 2005, Berea College agreed not to operate Emission Unit 02. The Agreed Order was subsequently amended on July 28, 2005 to include Emission Unit 01. Berea College is leasing the 50 mmBtu/hr boiler temporarily pending the development of a long term solution.